

AMANAT
TAHUNAN
NAIB CANSELOR
2018



Universiti
Malaysia
PAHANG
Engineering • Technology • Creativity

MAJLIS AMANAT TAHUNAN NAIB CANSELOR 2018

INOVASI NILAI 4.0

UMP DI LAUTAN BIRU

14 Mac 2018 (Rabu), 10:00 pagi
Dewan Kompleks Sukan Universiti,
UMP Kampus Gambang



Selamat Tahun Baharu!
Happy New Year!



SELAMAT KEMBALI KE KAMPUS!



Welcome back to campus!



Sekalung penghargaan
Heartiest appreciation



PENGHARGAAN KHUSUS

Special Appreciation

- Canselor
Chancellor
- Kementerian Pendidikan Tinggi
Ministry of Higher Education
- Lembaga Pengarah Universiti
Board of Directors



PENGHARGAAN KHUSUS

Special Appreciation

- Pengurusan Tertinggi dan Pusat Tanggungjawab
Top Management and Departments
- Warga akademik, pengurusan dan pelaksana
Academicians, managers and support staff
- Kepimpinan mahasiswa
Student leadership



PENGHARGAAN KHUSUS

Special Appreciation

- Syarikat milikan dan terbitan UMP
UMP's subsidiaries and spin-off companies
- Rakan kerjasama strategik, akademik dan industri
Strategic, academic and industrial collaborative partners
- Persatuan kakitangan dan alumni
Staff and alumni associations

PENCAPAIAN & KEJAYAAN

2017

Achievements & Successes





Universiti
Malaysia
PAHANG
Engineering • Technology • Creativity



STAR

EXCELLENT

Malaysia Research Assessment
(MyRA®) 2016



EXCELLENT

Ministry Higher Education
Institutions Rating System
(SETARA) 2017



STAR

EXCELLENT

Ministry of Higher Education
Star Rating
(MyMoheS) 2017

by

MINISTRY OF HIGHER EDUCATION (MOHE)



94.6%

Graduate Employability
Upon Graduation in 2017



2017
251-300

Engineering
Technology
(Mechanical
Engineering)



2018
351-400

Mechanical Engineering,
Aeronautical &
Manufacturing



By
**Faculty of Industrial
Management**



Universiti
Malaysia
PAHANG
Engineering • Technology • Creativity



Tahniah!

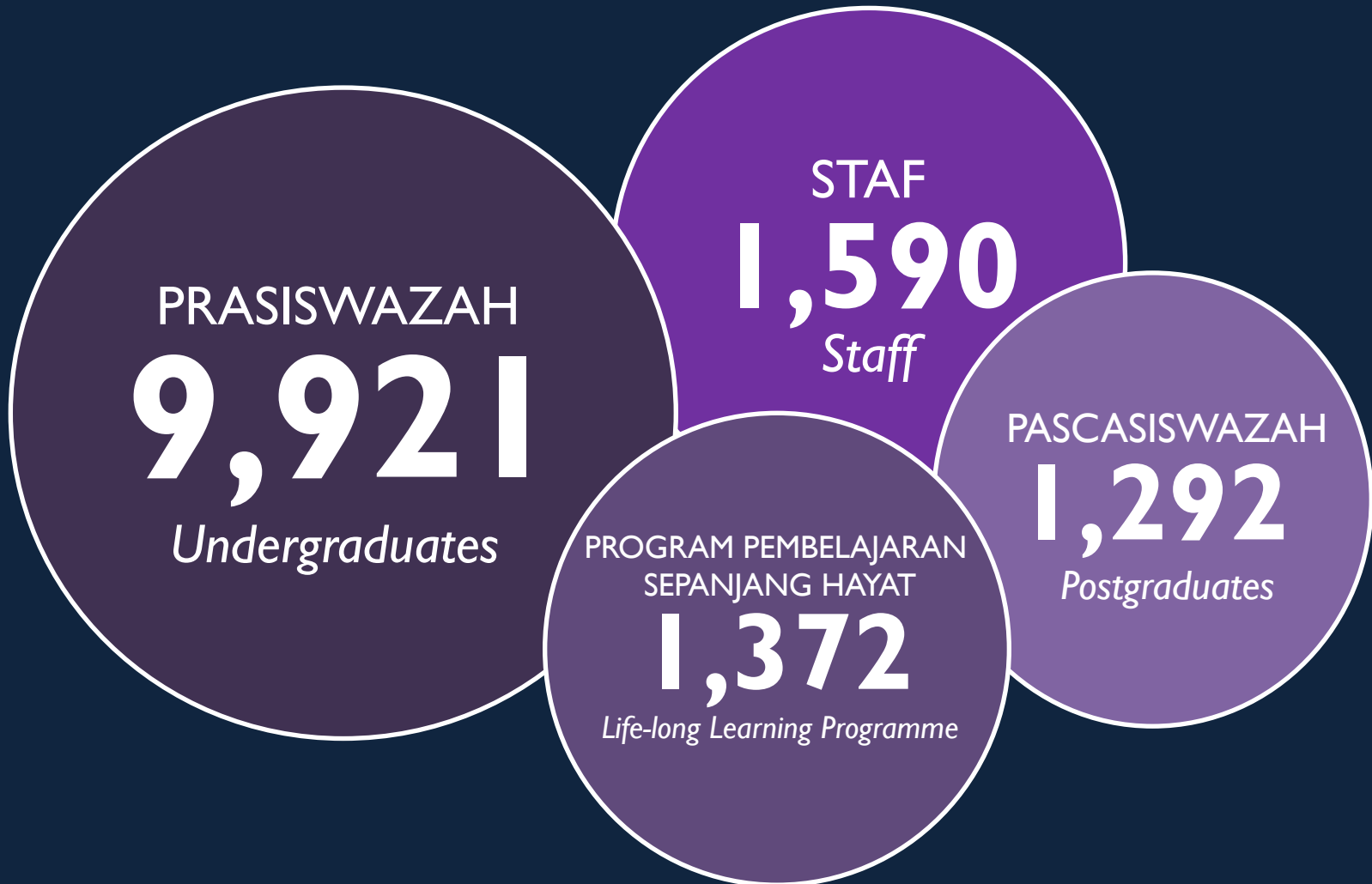
5 BINTANG

**ANUGERAH KECEMERLANGAN
PENGURUSAN KEWANGAN**

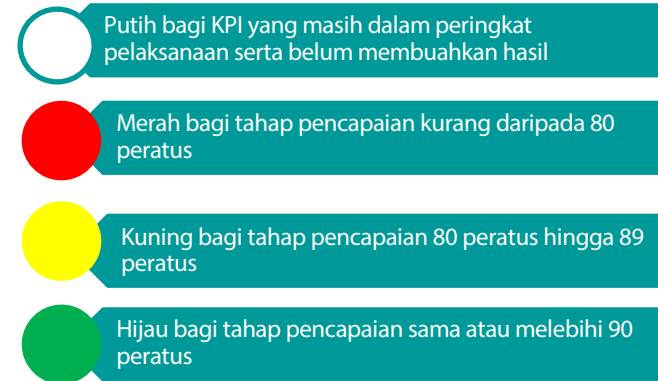
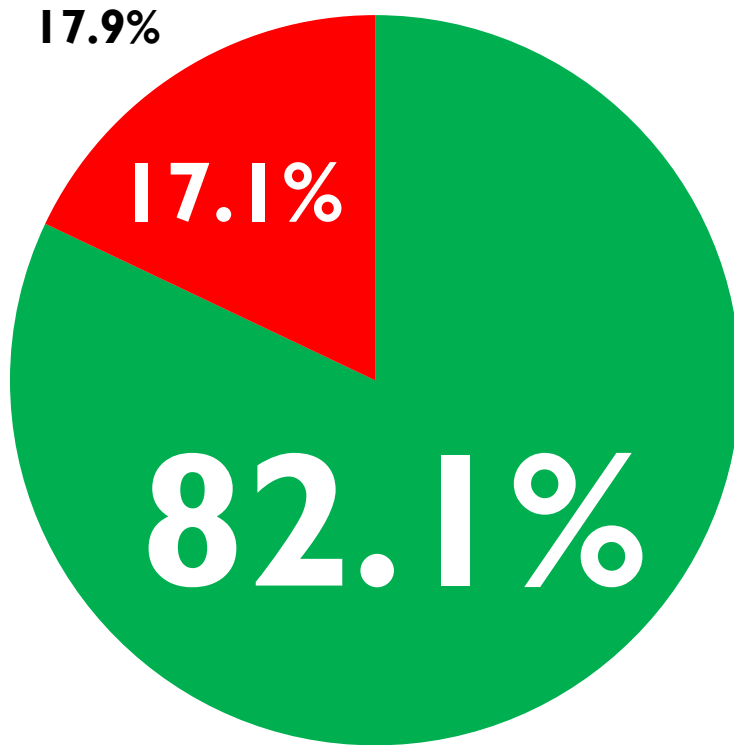
BERDASARKAN INDEKS AKAUNTABILITI TAHUN 2016

POPULASI WARGA

Campus Population



PENCAPAIAN PELAN STRATEGIK UMP BAGI TAHUN 2017



KOD	% PENCAPAIAN	BILANGAN KPI PELAN STRATEGIK	PERATUS PENCAPAIAN (%)
		AKHIR TAHUN	AKHIR TAHUN
	≥ 90%	32	82.1
	80% - 89%	0	0
	< 80%	7	17.9
	Dalam Pelaksanaan (N/A)	0	0
JUMLAH KESELURUHAN		39	100

PERATUS PENCAPAIAN BERDASARKAN LONJAKAN STRATEGIK

LONJAKAN STRATEGIK 1		LONJAKAN STRATEGIK 2		LONJAKAN STRATEGIK 3		LONJAKAN STRATEGIK 4		LONJAKAN STRATEGIK 5	
KPI	%	KPI	%	KPI	%	KPI	%	KPI	%
KPI 1A	100%	KPI 2A	100%	KPI 3A	100%	KPI 4A	100%	KPI 5A	75%
KPI 1B	100%	KPI 2B	100%	KPI 3B	100%	KPI 4B	100%	KPI 5B	100%
KPI 1C	79%			KPI 3C	100%			KPI 5C	33%
KPI 1D	97%								
KPI 1E	100%								
	95%		100%		100%		100%		69%

LONJAKAN STRATEGIK I: KEUNGGULAN AKADEMIK

PETUNJUK PRESTASI UTAMA (KPI)	CAPAI 2016	SASAR 2017	CAPAI 2017
			AKHIR TAHUN
KPI IA : KEBOLEHPASARAN GRADUAN			
i. Peratusan siswazah yang mendapat pekerjaan pada tahun konvokesyen	95.1%	90%	94.2%
KPI IB : ENROLMEN PELAJAR ANTARABANGSA			
i) Bilangan enrolmen mahasiswa prasiswazah	349	385	453
i) Bilangan enrolmen mahasiswa pasca siswazah	350	350	372
KPI IC : PRODUKTIVITI DAN KECEKAPAN KOS			
i) Kadar keciciran pelajar (<i>student attrition rate</i>) berdasarkan peringkat pengajian:			
a) Prasiswazah	2.3%	≤ 7%	8.1%
a) Sarjana	-	≤ 13%	12%
a) PhD	-	≤ 19%	17%
i) Peratusan pelajar yang berjaya menamatkan pengajian dalam masa yang ditetapkan (iGOT):			
a) Prasiswazah	66%	80%	63%
a) Sarjana	40%	50%	48%
a) PhD	55%	48%	51%
KPI ID : PERATUSAN ENROLMEN PELAJAR DALAM PROGRAM TVET			
i) TVET	56%	60%	58%
i) Kejuruteraan	44%	40%	42%
KPI IE : STAF KOMPETEN DAN PROFESIONAL			
i) Peratusan staf akademik (dalaman) yang terlibat dengan industri dalam bidang kepakaran atau pengajaran	16%	14%	36.7%

UMP UNIVERSITI FOKAL

Program Latihan Kemahiran Industri Projek Laluan Rel Pantai Timur
(PLKI-ECRL)



UMP as Focal University

East Coast Rail Link Industrial Skills Training Programme

TENAGA MAHIR INDUSTRI REL

UMP terajui pembangunan

Program Latihan Kemahiran Industri ECRL



Perbincangan kerjasama UMP – MRL – CCCC, 21 Julai 2017
UMP-MRL-CCCC collaborative deliberations, July 21, 2017



Skilled Workforce for Rail Industry

*UMP spearheads the development of
ECRL Industrial Skills Training Programme*



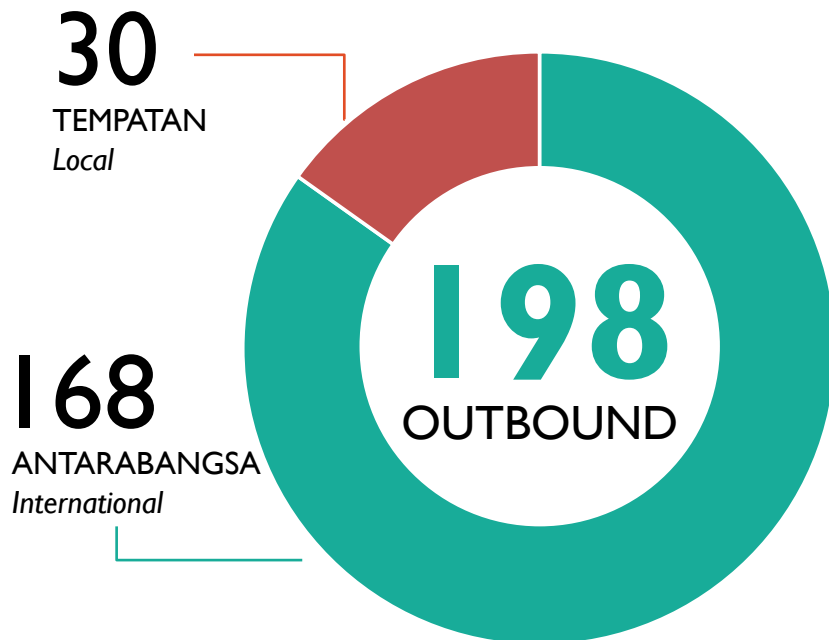
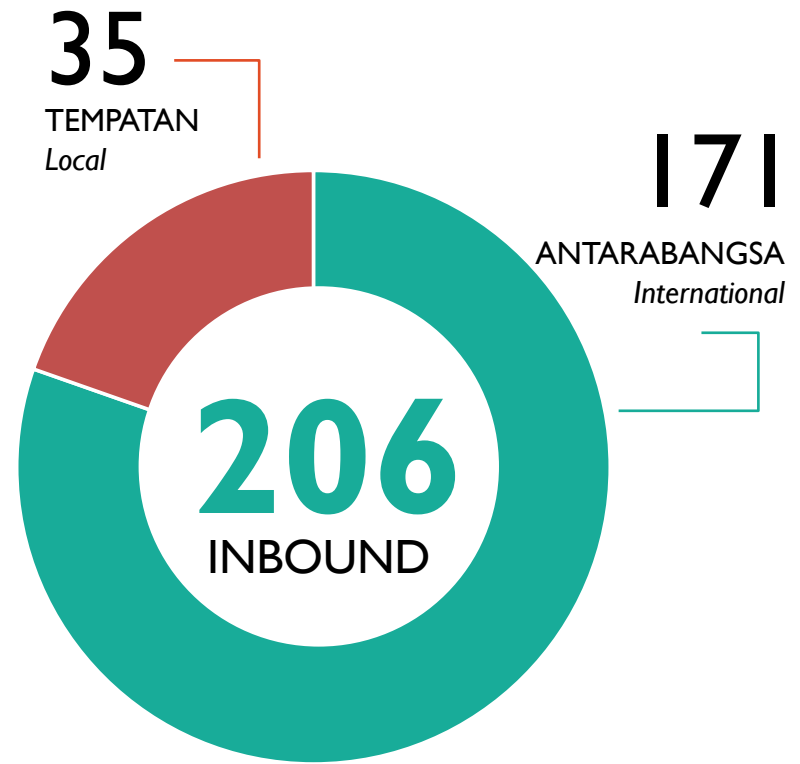
AKREDITASI ABEST 21



ABEST 21 Accreditation

JUMLAH PENGLIBATAN MOBILITI PELAJAR BERKREDIT

Total Number, Credited Student Mobility
(INBOUND)



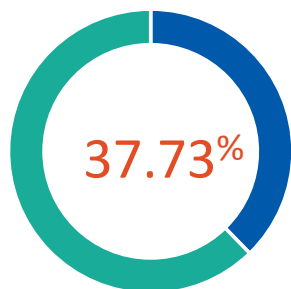
JUMLAH PENGLIBATAN MOBILITI PELAJAR BERKREDIT

Total Number, Credited Student Mobility
(OUTBOUND)

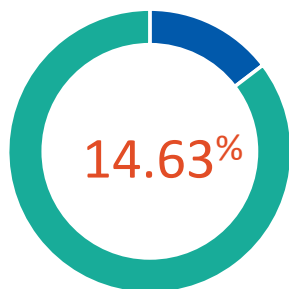
LONJAKAN STRATEGIK 2

KELESTARIAN KEWANGAN

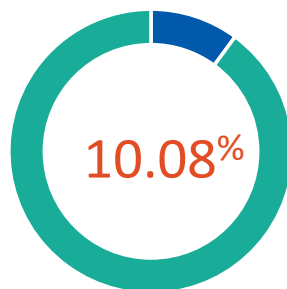
PETUNJUK PRESTASI UTAMA (KPI)	CAPAI 2016	SASAR 2017	CAPAI 2017
			AKHIR TAHUN
KPI 2A : PENJANAAN PENDAPATAN			
Peratusan penjanaan pendapatan sendiri berbanding jumlah perbelanjaan operasi	33%	26%	32%
KPI 2B : MENGOPTIMUMKAN PERBELANJAAN			
i. Peratusan penjimatan kos	2.3%	1.5%	11%
ii. Peratusan kos per pelajar	4.7%	8%	12.67%



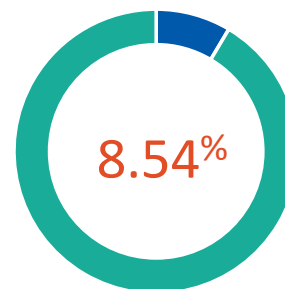
YURAN PENGAJIAN
RM36,059,384.15



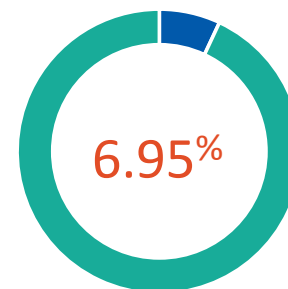
PERUNDINGAN
KHIDMAT TEKNIKAL
RM13,892,530.03



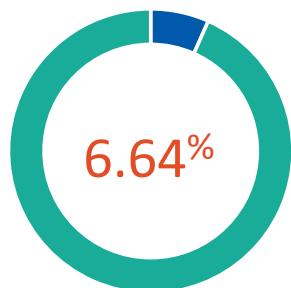
SEWAAN ASRAMA
& RUMAH TAMU
RM10,317,162.53



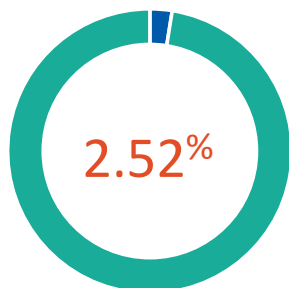
PELABURAN DAN ASET
RM8,076,547.29



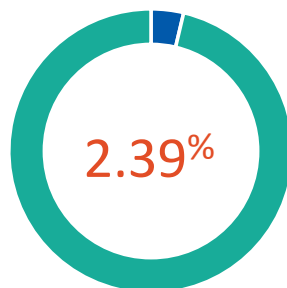
GRRAN PENYELIDIKAN
RM6,641,520.71



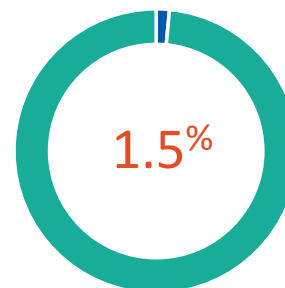
PROGRAM LATIHAN
RM6,345,418.46



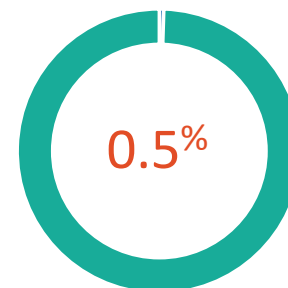
PENGKOMERSIALAN
RM2,468,054.31



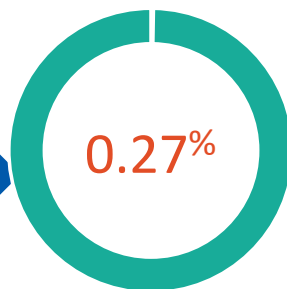
ENDOWMEN, PENAJAAN
& DERMA
RM2,288,709.47



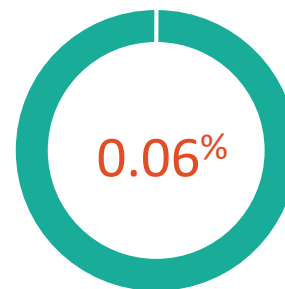
SEWAAN TANAH &
FASILITI LAIN
RM36,059,384.15



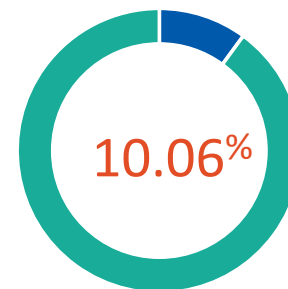
PENERBITAN
RM480,145.96



SUKAN DAN KEBUDAYAAN
RM256,327.02



PENGIKLANAN
RM54,551.97



LAIN-LAIN PENDAPATAN
RM9,616,484.60

PENJANAAN PENDAPATAN
Income Generation
RM98,023,090.22

PENJIMATAN KOS

Cost saving

PERATUSAN
PENJIMATAN KOS
PER PELAJAR

12.67%

Jumlah kos per pelajar

RM28,600

berbanding kos standard
per pelajar

RM30,000

PERATUSAN
PENJIMATAN KOS

11.30%

Jumlah penjimatan
kos operasi sebanyak

RM 29,038,892.27





JUMLAH KUTIPAN
Total collection

RM 15,724,661.61



Endowmen Kursi



Endowmen
Basiswa Pelajar



Endowmen
Kemudahan



Tabung Wakaf



Tabung Masjid



Tabung Ramadan



Tabung Bencana



Tabung Komuniti



Tabung Prasarana



Sumbangan
Kecemerlangan

LONJAKAN STRATEGIK 3

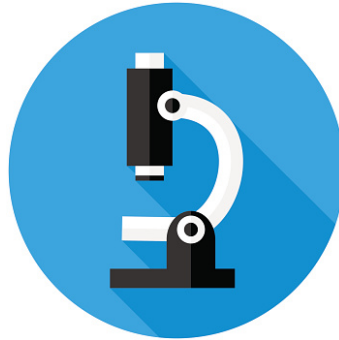
KEUNGGULAN PENYELIDIKAN & INOVASI

PETUNJUK PRESTASI UTAMA (KPI)	CAPAI 2016	SASAR 2017	CAPAI 2017
			AKHIR TAHUN
KPI 3A : PENERBITAN DAN SITASI PENYELIDIKAN			
i. Jumlah penerbitan dalam jurnal dan prosiding berindeks bagi setiap staf akademik	1.3	1.4	1.68
ii. Jumlah sitasi kumulatif bagi setiap staf akademik	10.2	14	16.2
KPI 3B : KEUPAYAAN PENYELIDIKAN			
i. Bilangan geran yang diperoleh daripada:			
a. Agensi Kerajaan	135	100	187
a. Industri	19	13	32
a. Antarabangsa	10	4	20
ii. Meningkatkan prestasi pencapaian Pusat Kecemerlangan (COE)	56%	60%	64.88%
KPI 3C : LIBATSAMA AKTIVITI PERKOMERSIALAN DAN KEUSAHAWANAN			
i. Bilangan kumulatif harta intelek (IP)	405	370	505
ii. Bilangan produk atau teknologi yang dikomersialkan pada tahun semasa	3	3	7

RM65,025,285.61

NILAI GERAN PENYELIDIKAN AKTIF

Active Research Grants Value



1,020

PROJEK PENYELIDIKAN
Research Projects

GERAN AGENSI

RM22.8 JUTA
Million

23 PROJEK
Projects

Agency Grants

GERAN INDUSTRI

RM21.5 JUTA
Million

32 PROJEK
Projects

Industry Grants

GERAN UMP

RM19.6 JUTA
Million

738 PROJEK
Projects

UMP Grants

GERAN ANTARABANGSA

RM1.1 JUTA
Million

19 PROJEK
Projects

International Grants

RM4,111,323.32

PENDAPATAN PENGKOMERSIALAN

Commercialization Income



15

PRODUK PENYELIDIKAN

Research Products

PRODUK <i>Product</i>	PENDAPATAN <i>Income (RM)</i>
Recycling of Base Oil From Spent Lubricant	1,972,283.03
Pisoptera	1,129,988.26
Pestkilla	594,361.40
Green BRICKS	181,221.40
Asarfont	70,505.00
DiaClean	59,820.00
Mandarin For All	35,202.00
Home Detergent	28,739.93
Inazuma Jap	19,411.00
Electronic Wheelchair	7,575.00
Organic Fertilizer	4,300.00
Farmer Digital Expert Assistance System	3,510.00
Natural Antibacterial Hand Sanitizing Gel	2,100.00
Mercury Kit	1,436.30
Kacip Fatimah Based Supplement	870.00

PENGKOMERSIALAN PRODUK PENYELIDIKAN
Commercialized Research Products

PENCAPAIAN PAMERAN PENYELIDIKAN

Research Exhibition Achievement



27%

PENINGKATAN SITASI
Increase in Citations



TOP 1 PERCENTILE



TOP 5 PERCENTILE



TOP 10 PERCENTILE



TOP 25 PERCENTILE

10,289

7,526

2016

2017

LONJAKAN STRATEGIK 4

KEMAMPAHAN SOSIOEKONOMI & PERSEKITARAN

PETUNJUK PRESTASI UTAMA (KPI)	CAPAI 2016	SASAR 2017	CAPAI 2017
			AKHIR TAHUN
KPI 4A : KEUSAHAWANAN SOSIAL			
i. Bilangan usahawan yang mantap dalam kalangan pelajar dan warga UMP	9	10	10
ii. Bilangan projek keusahawanan sosial yang memberi impak kepada masyarakat dalam kalangan pelajar dan warga UMP	2	2	2
KPI 4B : KHIDMAT INOVASI KOMUNITI (CSI)			
Bilangan program CSI berdasarkan kepada ilmu yang memberi impak signifikan kepada sosio-ekonomi	2	2	2



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NBOS
STRATEGI LAUTAN BIRU KEBANGSAAN

RM 5,733,743.15

GERAN KOMUNITI/INDUSTRI
Community/Industry Grants

46

PROJEK
Projects



KTP

RM 5,414,743.15

36 PROJEK *Projects*



NBOS 5

RM 20,000

2 PROJEK *Projects*



NBOS 4

RM 155,000

3 PROJEK *Projects*



NBOS 8

RM 144,000

5 PROJEK *Projects*

EMPOWER ECER MAHKOTA

10,981

PESERTA SOSIOEKONOMI
Socioeconomic participants

LATIHAN AKADEMIK
Academic Training

9,810

PESERTA *Participants*

LATIHAN KEMAHIRAN
Skills Training

1,171

PESERTA *Participants*

LONJAKAN STRATEGIK 5

KEUNGGULAN JENAMA

PETUNJUK PRESTASI UTAMA (KPI)	CAPAI 2016	SASAR 2017	CAPAI 2017
			AKHIR TAHUN
KPI 5A : MEMARTABATKAN KECEMERLANGAN BAKAT			
i. Pembangunan dan pelaksanaan UMP <i>Academic Talent Management System</i> dalam sistem IMS	100% pembentukan kriteria	100% (selesai simulasi rubrik)	75%
ii. Pencalonan Anugerah Akademik Negara (AAN)	0	2 calon (di peringkat universiti)	5
iii. Peratus graduan yang bekerja di sektor swasta multinasional berdasarkan responden <i>tracer study</i> bagi tahun bergraduasi	15%	15%	17.3%
iv. Lantikan profesor terbilang	0	1	0
v. Peratusan pelajar dengan CGPA melebihi 3.50 yang mendaftar di UMP	17%	10%	15%
KPI 5B :TRANSFORMASI PENYAMPAIAN (INFO DAN INFRA) DAN PERKHIDMATAN LESTARI			
i) Jumlah pelajar berdaftar yang mengikuti kursus MOOC untuk memenuhi keperluan pembelajaran sepanjang hayat dan pendidikan fleksibel	2,263	5,000	6,803
ii) Peratusan kecemerlangan pengoperasian:			
a) Fasiliti awam (Air, Elektrik & Penghawa Dingin)	99%	85%	90%
a) Internet	91%	91%	98.77%
a) Perkhidmatan pelanggan (aduan, panggilan telefon & pengukuran perkhidmatan)	95%	90%	100%
KPI 5C : PENARAFAN UNIVERSITI			
i) Kedudukan dalam QS Ranking Asia	251-300	251-300	281-290

PROGRAM TRANSFORMASI KUALA PAHANG

Projek Medan Ikan Bakar Di Kuala

- 11 daripada 12 lot telah diisi oleh usahawan tempatan Kuala Pahang
- Mula beroperasi pada 1 Ogos 2017
- Kerjasama UMP dan Majlis Pembangunan Wilayah Ekonomi Pantai Timur (ECERDC)





KUALA PAHANG FACELIFT

RM1.6 JUTA *million*

KUALA PAHANG FACELIFT



**KESEJAHTERAAN
KOMUNITI**

RM860,000

Community Well-being

**LATIHAN
TVET**

RM270,000

TVET Training

KEUSAHAWANAN

RM220,000

Entrepreneurship

**BAIK PULIH
15 RUMAH**

RM250,000

Repair of 15 houses



SUATU PERJALANAN

2009

Engineering, Technology, Creativity:
Memaknainya Kepada Sebuah Universiti Berfokus

Membangun Universiti Bagi Keunggulan Lestari

2010

2011

Penjajaran Melalui Transformasi dan Migrasi

Inovasi Berdisiplin Sepanjang Migrasi

2012

2013

Menuju Kecemerlangan, Kembali Kepada Asas

Berasaskan Nilai, Berfokuskan Strategi, Berpandukan Prestasi

2014

2015

Berani Berbeza, Memaknakan Autonomi

Destiny by Design

2016

2017

Memasyarakatkan Teknologi: Agenda Keterampilan UMP



MINISTER OF HIGHER EDUCATION MANDATE 2018

HIGHER EDUCATION 4.0

KNOWLEDGE

INDUSTRY

HUMANITY

AMANAT 2018

01 LEARNING & TEACHING 4.0

HIGHER EDUCATION 4.0:
Knowledge, Industry and Humanity

Datuk Seri Idris Jusoh



Learning Spaces



Pedagogy



Fluid & Organic Curriculum



Technologies



HEUTAGOGY
Self-determined learning

Students as co-curators of knowledge



PARAGOGY
Peer-oriented learning

Students learn with and from each other as fellow learners



CYBERGOGY
Virtual-based learning

Students learn through the use of technology



Learning without lectures



Evaluation without examinations



Future jobs



Industry & Academia are one



Humanity

**Amanat Menteri
Pendidikan Tinggi,
11 Januari 2018**

*Higher Education
Minister's Mandate,
January 11, 2018*

**KEY
TAKEAWAYS**

Learning & Teaching 4.0

- Learning Spaces
- Pedagogy (Heutagogy, Paragogy, Cybergogy)
- Fluid & organic curriculum
- Technologies

Learning without lectures

Evaluation without examination

Knowledge without borders

New Jobs will be created

Industry and Academia are One

Ultimately it's meant for human beings



CLOSING

We must be brave in order to change.

We have been brave in redesigning our higher education system.

And now, we will once again show that we are brave and innovative enough to change for the 4th Industrial Revolution and beyond!

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INOVASI NILAI 4.0

UMP DI LAUTAN BIRU



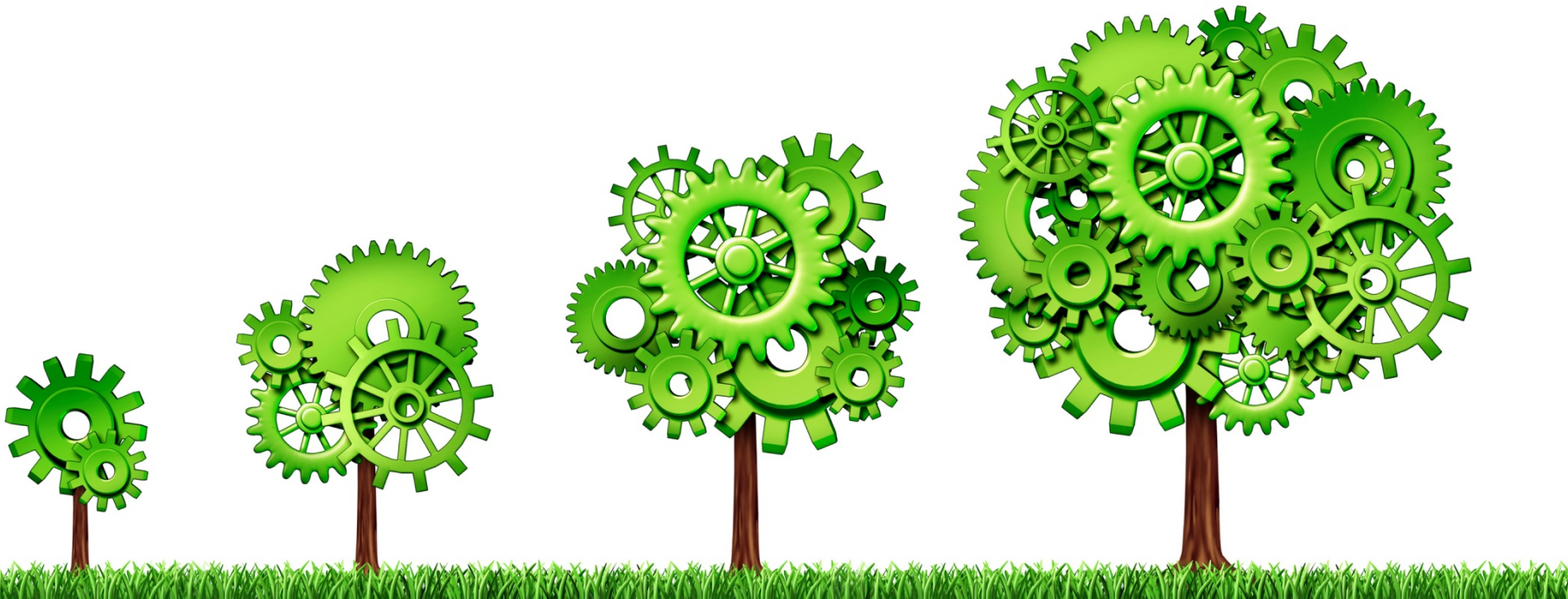


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THE IDEA OF A UNIVERSITY.

“A university training is the great ordinary means to great but ordinary ends; it aims at raising the intellectual tone of society...It is the education which gives a man a clear conscious view of his own opinions and judgments, a truth in developing them, an eloquence in expressing them and a force in urging them.” – John Henry Newman (1852).





PENAWARAN BERNILAI

Valuable Offerings

- Menawarkan penyelesaian bulus terhadap masalah industri sedia ada
Offer a breakthrough solution for an existing industry problem
- Menafsir semula dan menyelesaikan masalah industri sedia ada
Redefining and solving an existing industry problem
- Mengenalpasti dan menyelesaikan masalah baharu atau meneroka peluang baharu
Identifying and solving a brand-new problem or seizing a brand-new opportunity



KERANGKA PEMIKIRAN LAUTAN BIRU

Blue Ocean Framework

- Tidak menganggap keadaan semasa sebagai mutlak; malah boleh dibentuk untuk memihak kepada kita.
Does not take existing conditions as given, reshape them in our favour and into opportunities.
- Tidak menyingkirkan pesaing, sebaliknya fokus kepada menyahrelevankan persaingan.
Does not seek to beat the competition, instead make the competition irrelevant.
- Mencipta dan mendapatkan permintaan baru, bukan berebut pelanggan yang sedia ada.
Creating and capturing new demand, not fighting over existing customers.
- Menggunakan strategi kelainan dengan kos rendah.
Apply differentiation and lower cost strategy.

The top half of the image features a dark blue background with a network of white lines connecting various white icons. The icons include a camera, a house, a laptop, a smartphone, a database cylinder, a shopping cart, a computer monitor, a truck, a ring, a smartphone with a call icon, a power plug, a robotic arm, and a headset. In the center of this network, the text "INDUSTRY 4.0" is displayed in a light blue, stylized font.

INDUSTRY 4.0

“The next phase in the digitization of the manufacturing sector, driven by four disruptions: the astonishing rise in data volumes, computational power, and connectivity, especially new low-power wide-area networks; the emergence of analytics and business-intelligence capabilities; new forms of human-machine interaction such as touch interfaces and augmented-reality systems; and improvements in transferring digital instructions to the physical world, such as advanced robotics and 3-D printing.” – McKinsey & Co.



INISIATIF UTAMA PENDIDIKAN TINGGI

Key Higher Education Initiatives

KALENDAR AKADEMIK TRIMESTER

Trimester Academic Calendar

PROGRAM 2u2i

2u2i Programme

KURSUS MOOC

MOOC Courses

PERSIJILAN PROFESIONAL

Professional Certification

PEMBELAJARAN LANGKAH KENDIRI

Self-paced Learning

E-PORTFOLIO BERINTEGRASI iCGPA

iGCPA-integrated E-Portfolio

**MALAYSIAN ENGLISH ASSESSMENT
(MEA)**



SISTEM TRIMESTER

Trimester System

- Ruang dan masa
Time and space
- Menyetarakan penawaran program pembelajaran sepanjang hayat dengan program arus perdana
Commensuration of the offerings for life-long learning and mainstream programmes
- Pendekatan fleksibel
Flexible approach
- Laluan pantas
Fast track
- Mesra program *gap year*, sukan, bekerja sambil belajar
Student-friendly
- Keterbukaan pengambilan
Open intake



PROGRAM 2u2i

2u2i Programme

- Pembelajaran di dalam dan di luar kampus
On- and off-campus learning
- Pendidikan bersistematis di industri
Systematic education at the industry
- Pengalaman bekerja berstruktur dan berkredit
Structured and credited working experience
- Kerjasama industri untuk *full immersion*
Industrial collaboration for full immersion
- Budaya kolaboratif
Collaborative culture
- Mengurangkan latihan dalaman
Minimization of internal training
- Memperkasa kualiti program akademik UMP
Enhancing the quality of UMP's academic programmes



MOOC

Massive Online Open Courses



PERSIJILAN PROFESIONAL

Professional Certification



PEMBELAJARAN LANGKAH KENDIRI *Self-paced Learning*



E-PORTFOLIO

Malaysia English Assessment (MEA) Ecosystem



The Ecosystem for English Language Learning and Assessment In Higher Education

MALAYSIA ENGLISH ASSESSMENT (MEA)



ASSESSING LANGUAGE PERFORMANCE

MEA1

Measures the ability of students to use and understand English as it is spoken, heard, read and written in academic and non-academic contexts in higher education. It includes both proficiency tests and other ongoing assessments.

MEA2

Assesses students' ability to complete real tasks in a variety of situations in relevant engagement sites. To accomplish the tasks, they require not only knowledge of English and the appropriate use of English within a given cultural and social context, but also relevant generic competences.

1

CO-CURRICULAR AND EXTRA CURRICULAR ACTIVITIES

Partners

Primary partners: peers
Other collaborators: university staff, government organisations, companies, NGOs

Purpose

To provide students with a wide range of authentic contexts and opportunities to communicate in English outside the classroom, where the focus is on meaning rather than on form

Domains & Settings

Educational, occupational, private and public
On-campus and off-campus



3

ONLINE RESOURCES

Partners

Primary partners: online platform hosts, content developers, local and/or abroad
Other collaborators: university staff, government organisations, companies, NGOs

Purpose

To make available online resources in order to engage English language learners and meet their needs

Domains & Settings

Educational, occupational, private and public
On-campus and off-campus



5

INDUSTRY-ACADEMIA COLLABORATION

Partners

Primary partners: partners from industry
Other collaborators: Higher Learning Institutions (HLIs)

Purpose

To provide students with opportunities to use English in the context of the workplace and help them acquire employability skills by engaging with prospective employers

Domains & Settings

Occupational, educational, private and public
Relevant industry



2

INTER-DISCIPLINARY COLLABORATION

Partners

Primary partners: content lecturers and English teachers/lecturers
Other collaborators: practitioners

Purpose

To provide students with opportunities to engage in tasks and activities that will display their disciplinary knowledge and skills using English as a means of communication

Domains & Settings

Occupational, educational and public
On-campus and off-campus



4

COMMUNITY ENGAGEMENT

Partners

Primary partners: the local community
Other collaborators: government organisations, schools, companies, NGOs

Purpose

To provide students with opportunities to use English in a community service programme that will help them acquire life skills and knowledge, and increase their social awareness and responsibility.

Domains & Settings

Educational, occupational, private and public
Local community



6

GLOBAL ENGAGEMENT

Partners

Primary partner: the global community
Other collaborators: The local community, including other universities

Purpose

To provide students with opportunities to network with global partners and improve global competency using English as a means of communication.

Domains & Settings

Educational, occupational, private and public
The global context



COMMUNITISING TECHNOLOGY

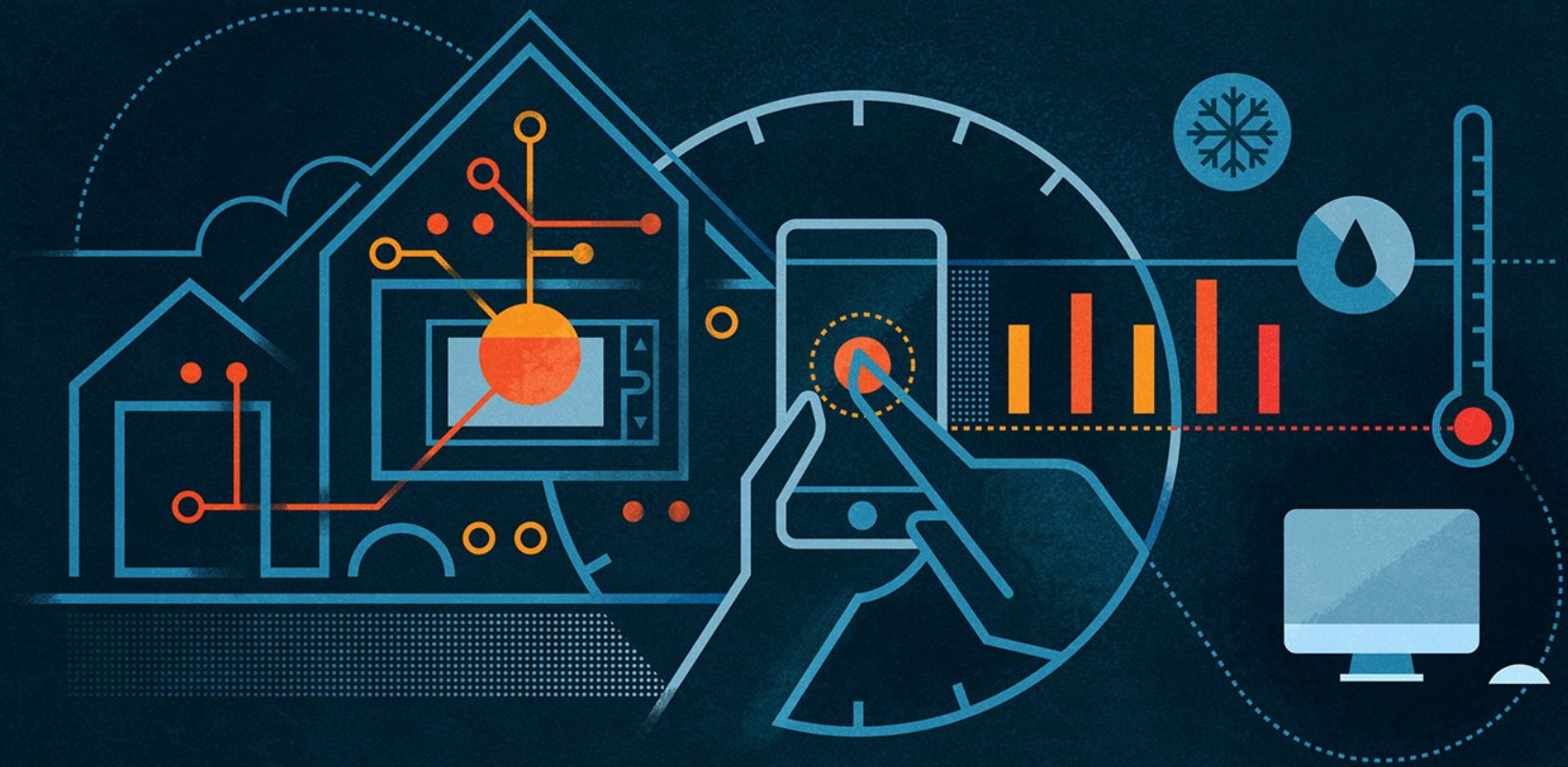


The UMP perspective of patriotism
and its BIG AGENDA.



INDUSTRIAL REVOLUTION 4.0

Eyeing the future.



ACEST

Asia Centre of Excellence for Smart Technology
ECERDC – TUM – UMP

ACEST



-
- Towards productivity-driven and technology-intensive economy.
 - Enable local and regional companies to adopt Industry 4.0 as well as any other innovative and smart technologies.
 - Develop strong local talent pool for Industry 4.0 as well as any other innovative and smart technologies via educational and upskilling programme under TUM.
 - Facilitate sharing and transfer of knowledge in Industry 4.0 as well as any other innovative and smart technologies between academia, private and public sectors.



INOVASI TEKNOLOGI vs INOVASI NILAI

Innovation Technology vs Value Innovation

- Inovasi teknologi dan kejayaan pasaran
Technological innovation and market success
- Siapa mencipta komputer peribadi?
Who invented the personal computer?
- Siapa mencipta VCR?
Who invented the VCR?
- Siapa yang sering kita kaitkan dengan komputer peribadi dan VCR?
Who is commonly associated with personal computer and VC? (MITS dan Ampes, respectively)
- *Laying of the extraordinary eggs*
vs. Hatching the eggs for commercial use



INOVASI NILAI

Value Innovation

Enam fasa pengalaman pembeli/pengguna
Six phases of buyer/user experience



Pembelian/Pendaftaran/Pesanan (*Purchase*)



Penghantaran (*Delivery*)



Penggunaan (*Use*)



Penambahan (*Supplement*)



Penyelenggaraan (*Maintenance*)



Pembuangan (*Disposal*)



INOVASI NILAI

Value Innovation

Enam tuas penggunaan
Six utility levers



Produktiviti pelanggan (*Customer productivity*)



Ringkas (*Simplicity*)



Keselesaan (*Convenience*)



Pengurangan risiko (*Risk reduction*)



Keseronokan dan imej (*Fun and image*)



Mesra alam (*Environmental friendliness*)

INISIATIF STRATEGIK UMP

UMP's Strategic Initiatives

Kilang Pengajaran
Teaching Factory



Projek Gelatin Halal
Halal Gelatin Project

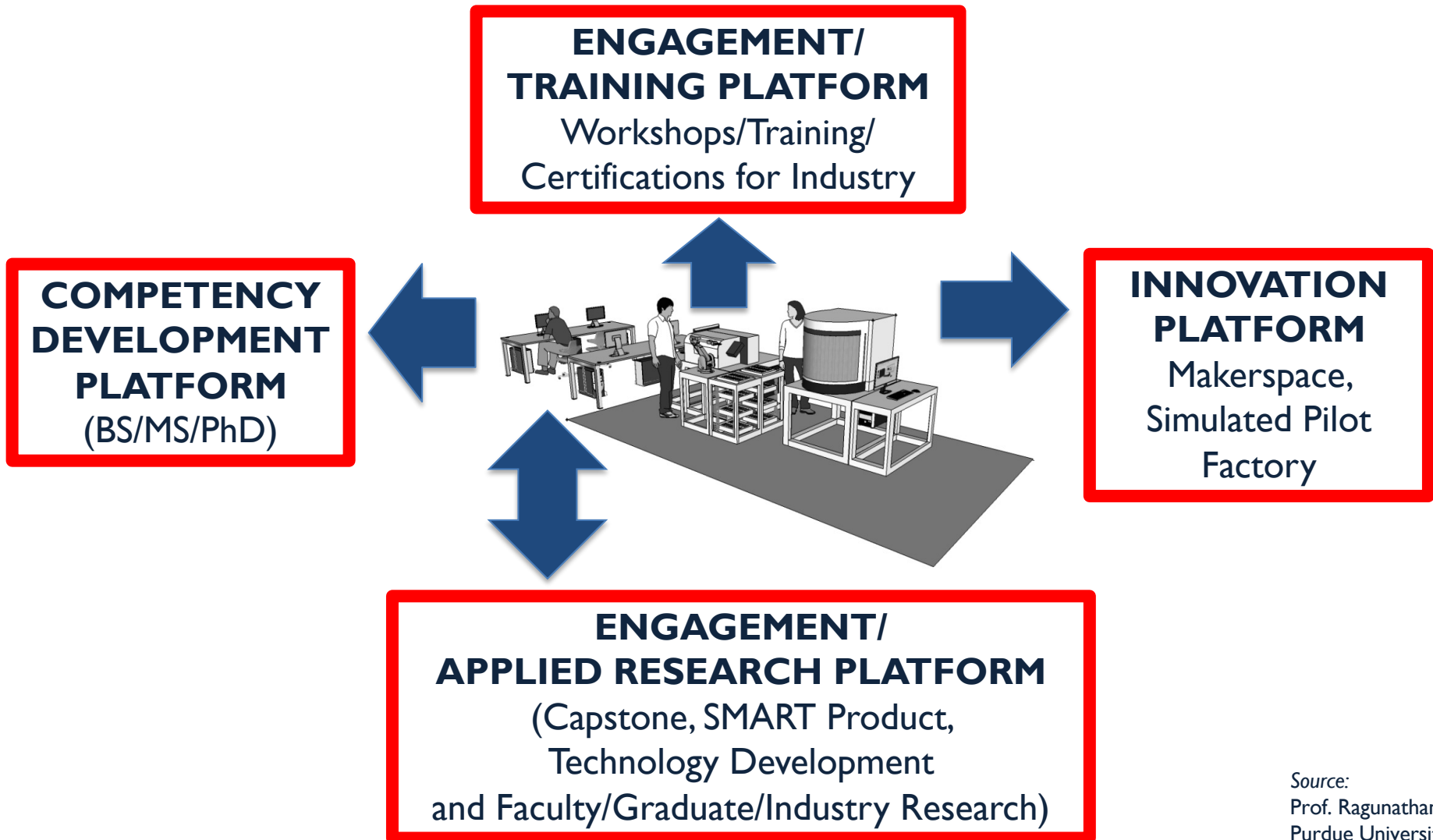


Taman Bioaromatik
Bioaromatic Park
Luit, Maran

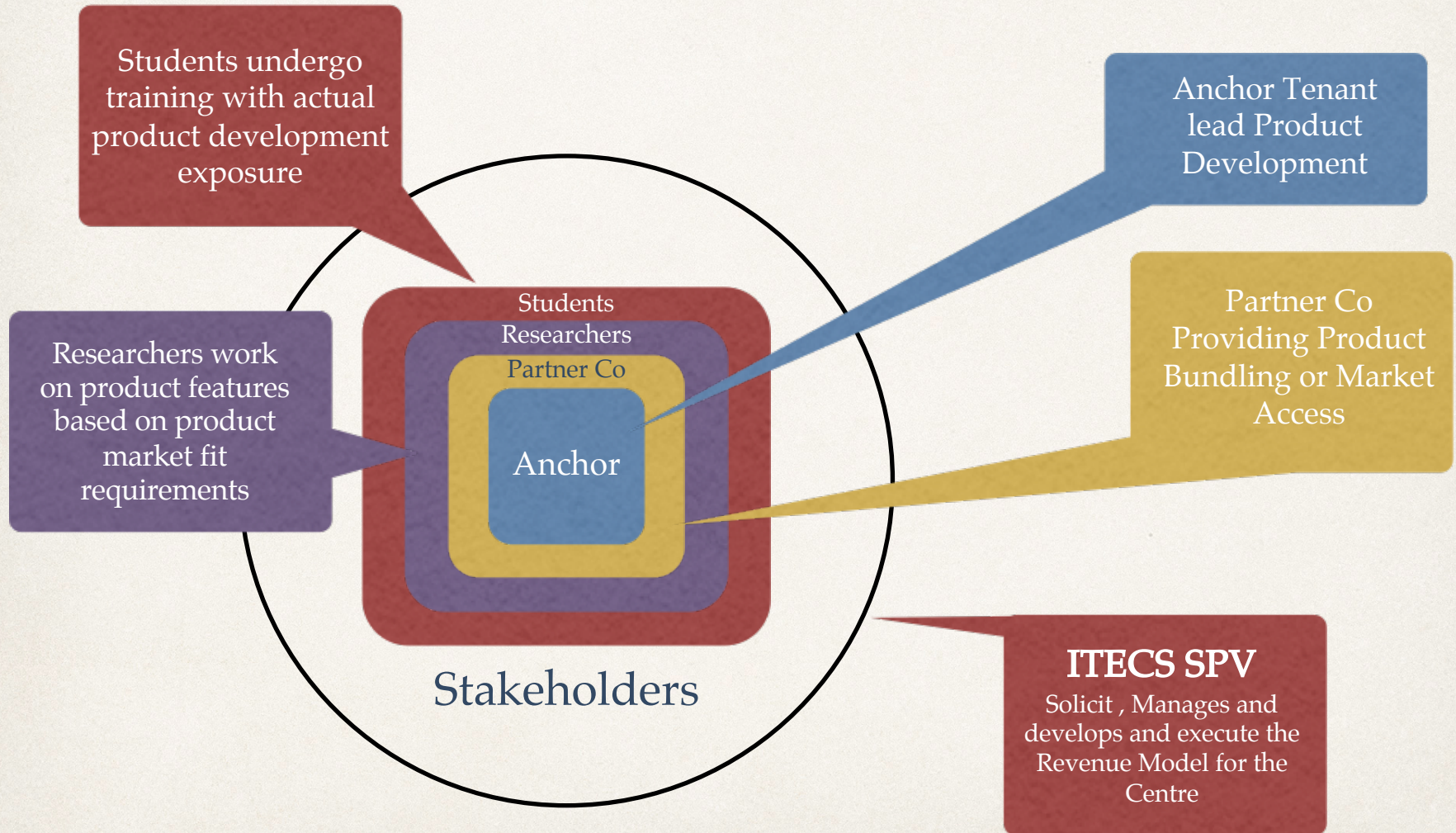


SMART LEARNING FACTORY

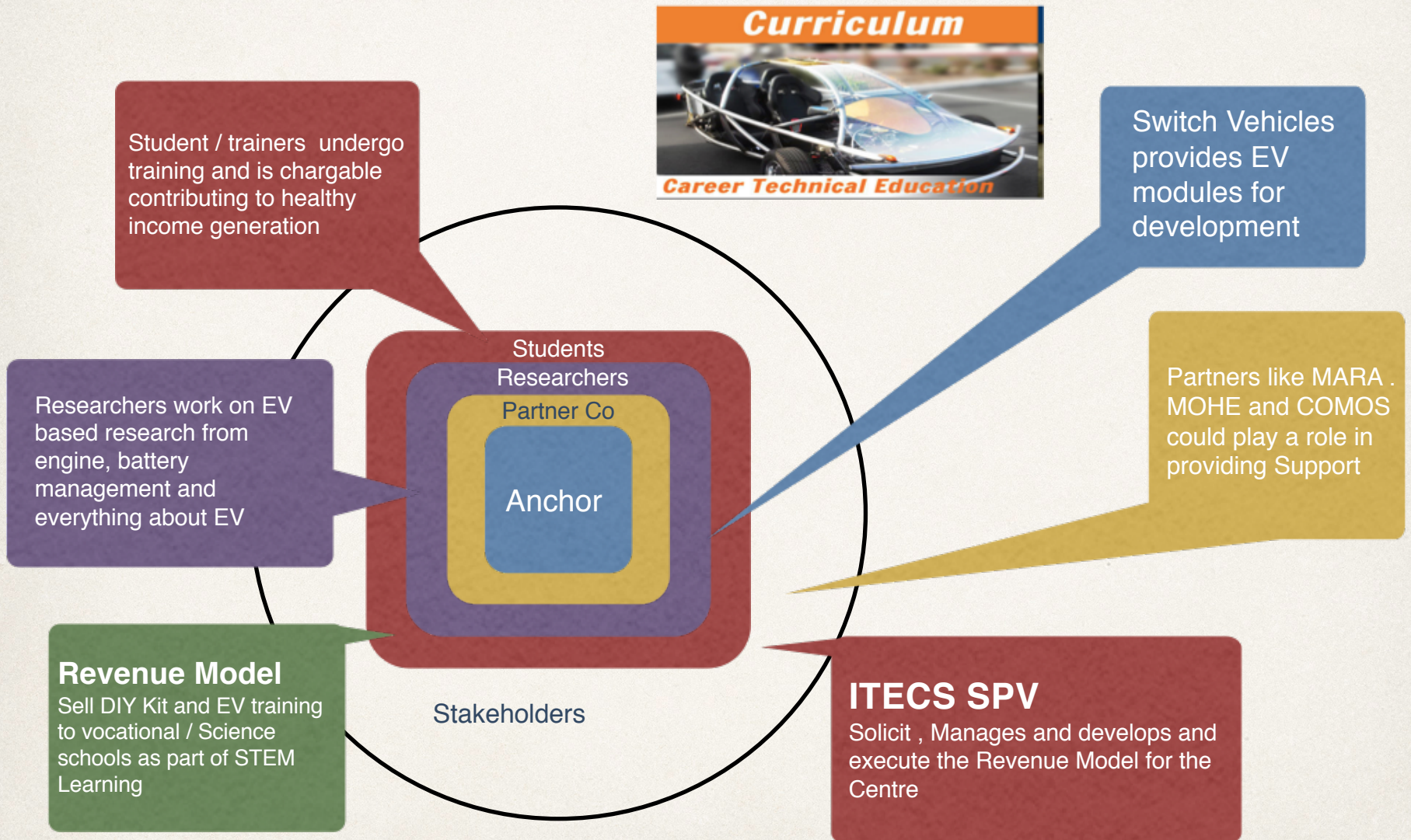
Main Goals



Newcleus Center Program @UMP ITECS



Switch Labs EV Newcleus Center



Newcleus Center @ UMP ITECS

Key activities in a Newcleus Centre

INDUSTRY LEAD RESEARCH AND PRODUCT DEVELOPMENT

ANCHOR tenant should be able to provide research and development opportunities based on customers observation, feedback and validation this will lead to creation of new Intellectual Property as well as a secured distribution channel for sales.

UNIVERSITY LEAD RESEARCH AND DEVELOPMENT

Universities could create a strategic research cluster based on the Newcleus Centre platform and collaboration.

TECH MARKET UPDATES

Tech Market Updates can be done quarterly to share insights with the University fraternity as well as the Public..

JOINT RESEARCH AND DEVELOPMENT

Both Parties could collaborate and jointly develop products for the market .

TRAINING AND WORKSHOP

Training and workshops about the subject matter could be conducted to train the University fraternity or alternatively



Talent Development

The program will mainly create talent development in Electric Vehicles throughout the schools and vocational schools

60

Students trained under the Centre

2

Training Centers developed throughout Malaysia



New Product Development

The Main Lab in UMP will be a platform for new Research and Development to be tested out in the electric vehicle space . Research can involve any schools or fraternity from engineering to Computer Science

3

IP Registered products on cybersecurity

150K

Funds Raised for product Commercialisation

3K

Sales Generated



Market Validation Sprints

Market Validation sprints are in general the key core activities conducted in the center to identify the product market fit for the stable of products under development

6

Market Sprints Conducted



Engage

UMP Fraternity from Schools to COE as well as participating industries are engaged based on the Market Validation exercise , this market intelligence will guide the research and development activities in the Universities as well as identifying technology trends

6

Market Updated Distributed / Events

**ELECTRONIC VEHICLE
NEWCLEUS
FIRST YEAR IMPACT MATRIX**



Talent Development

The program will mainly create talent development in Mobile Data Security and Blockchain Development

30

Students trained under the Centre

1

Training Centers developed throughout Malaysia



New Product Development

The Main Lab in UMP will be a platform for new Research and Development to be tested out in the with Encr8tor Clients

3

IP Registered products on cybersecurity

150K

Funds Raised for product Commercialisation

3K

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Market Validation Sprints

Market Validation sprints are in general the key core activities conducted in the center to identify the product market fit for the stable of products under development

6

Market Sprints Conducted

6

Market Updated Distributed / Events

**DATA SECURITY
NEWCLEUS
FIRST YEAR IMPACT MATRIX**



Engage

UMP Fraternity from Schools to COE as well as participating industries are engaged based on the Market Validation exercise, this market intelligence will guide the research and development activities in the Universities as well as identifying technology trends

A black silhouette of a person's head and shoulders, facing left, wearing a graduation cap. The background is a blurred, warm-toned image of trees and foliage. The text "Are YOU ready for the challenge?" is overlaid in white, bold, sans-serif font, centered within the silhouette of the head.

**Are
YOU
ready
for the
challenge?**



Universiti
Malaysia
PAHANG
Engineering • Technology • Creativity

Terima kasih UMP!
Thank you UMP!